

31876.0140



PATENT  
09/405,618

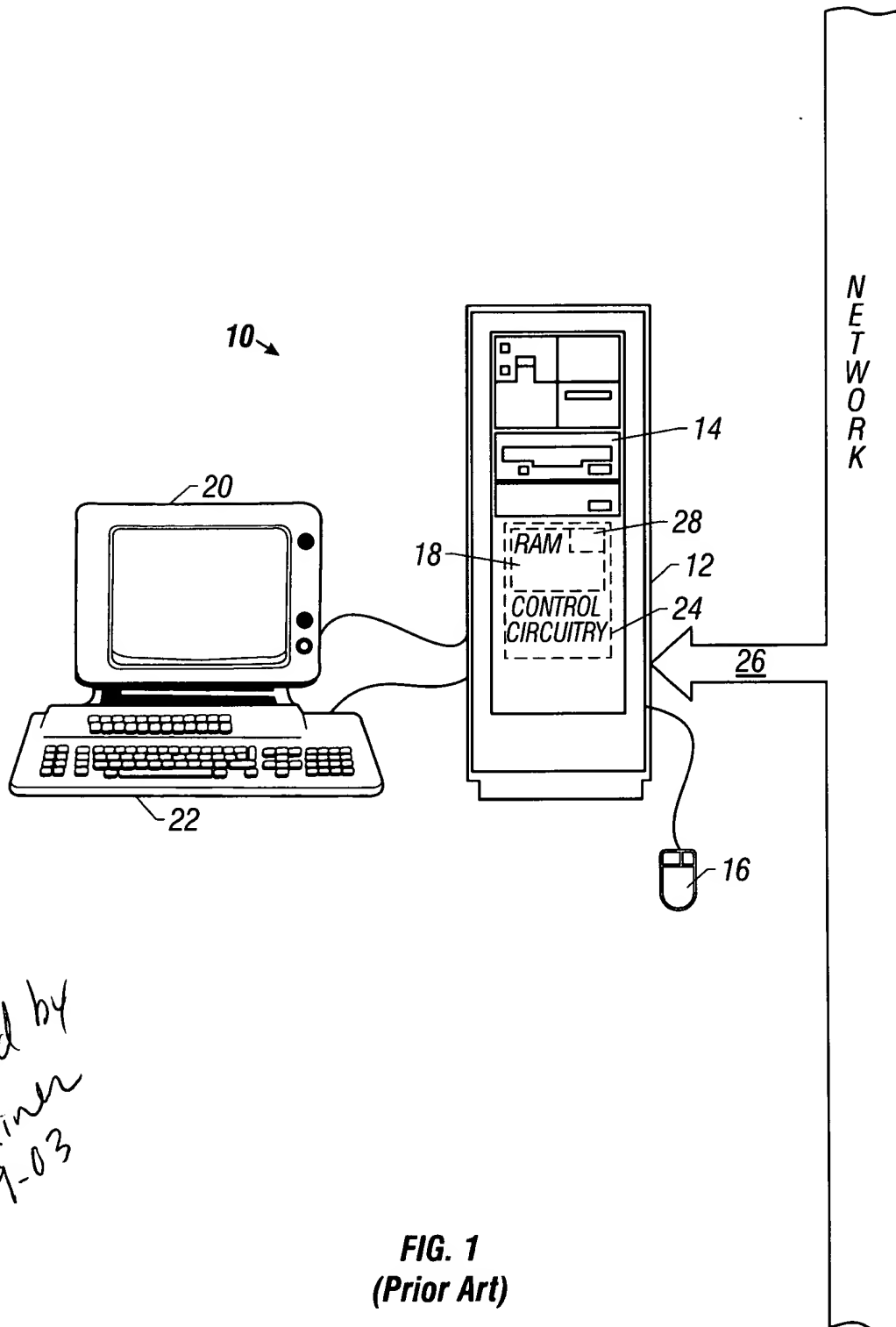
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**New Formal Drawings**



Title: Software Modeling of Logic Signals Capable  
of Holding More Than Two Values  
Inventors: Blomgren et al.  
Application Serial No.: 09/405,618  
Docket No.: 31876.0140

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DHC  
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1-9-03

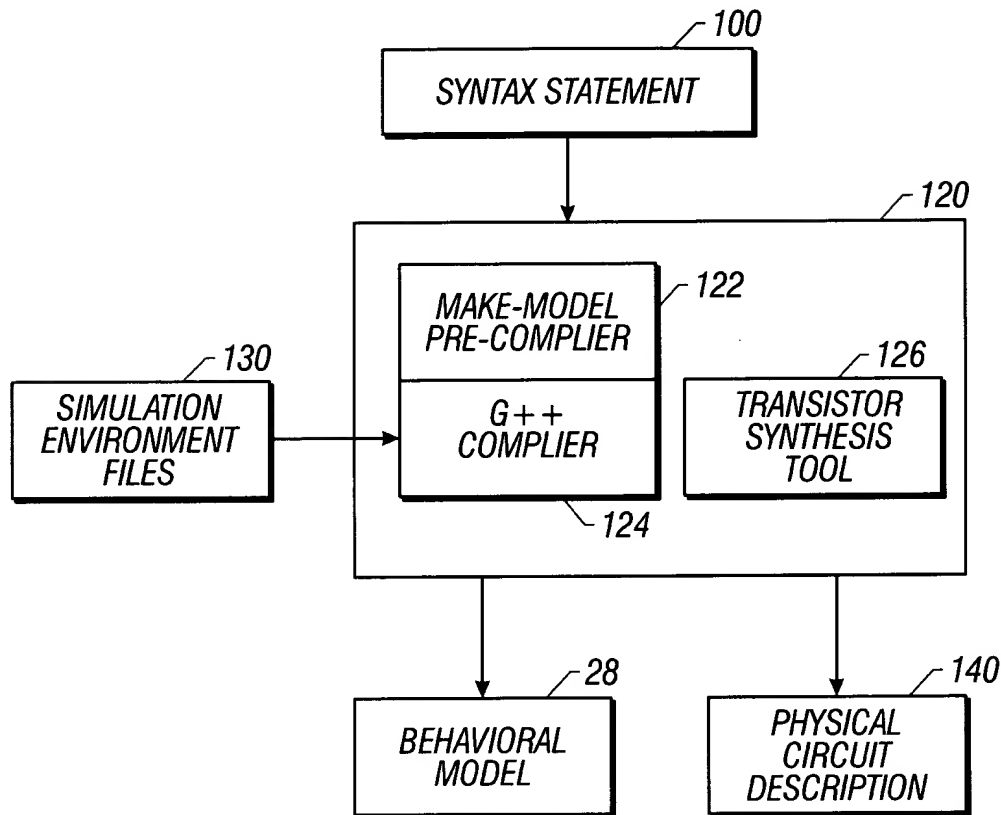


FIG. 2

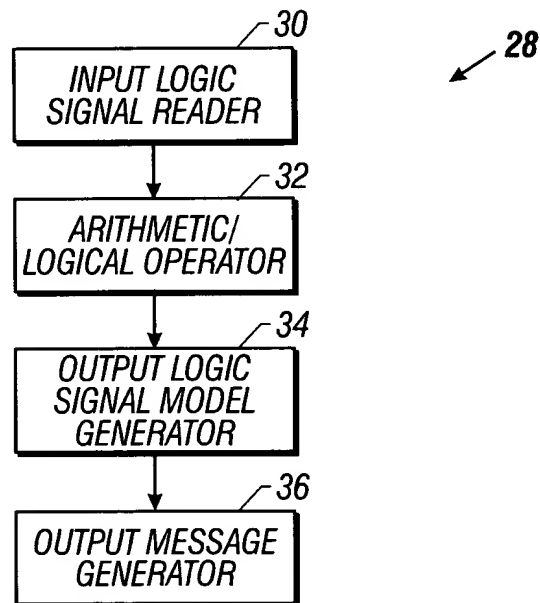


FIG. 3

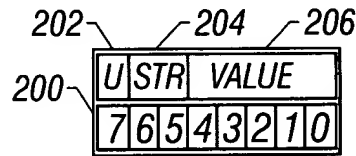
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1-9-03



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STR	CORRESPONDS TO
11	Z - high impedance
10	R - weakly-driven
01	moderately-driven
00	strongly-driven



VALUE	CORRESPONDS TO	VALUE	CORRESPONDS TO
00000	N-nary signal value = 0	10000	N-nary signal value = 16
00001	N-nary signal value = 1	10001	N-nary signal value = 17
00010	N-nary signal value = 2	10010	N-nary signal value = 18
00011	N-nary signal value = 3	10011	N-nary signal value = 19
00100	N-nary signal value = 4	10100	N-nary signal value = 20
00101	N-nary signal value = 5	10101	N-nary signal value = 21
00110	N-nary signal value = 6	10110	N-nary signal value = 22
00111	N-nary signal value = 7	10111	N-nary signal value = 23
01000	N-nary signal value = 8	11000	N-nary signal value = 24
01001	N-nary signal value = 9	11001	N-nary signal value = 25
01010	N-nary signal value = 10	11010	N-nary signal value = 26
01011	N-nary signal value = 11	11011	N-nary signal value = 27
01100	N-nary signal value = 12	11100	N-nary signal value = 28
01101	N-nary signal value = 13	11101	N-nary signal value = 29
01110	N-nary signal value = 14	11110	N-nary signal value = 30
01111	N-nary signal value = 15	11111	N-nary signal value = 31

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Approved  
by examiner  
1-9-03

FIG. 4



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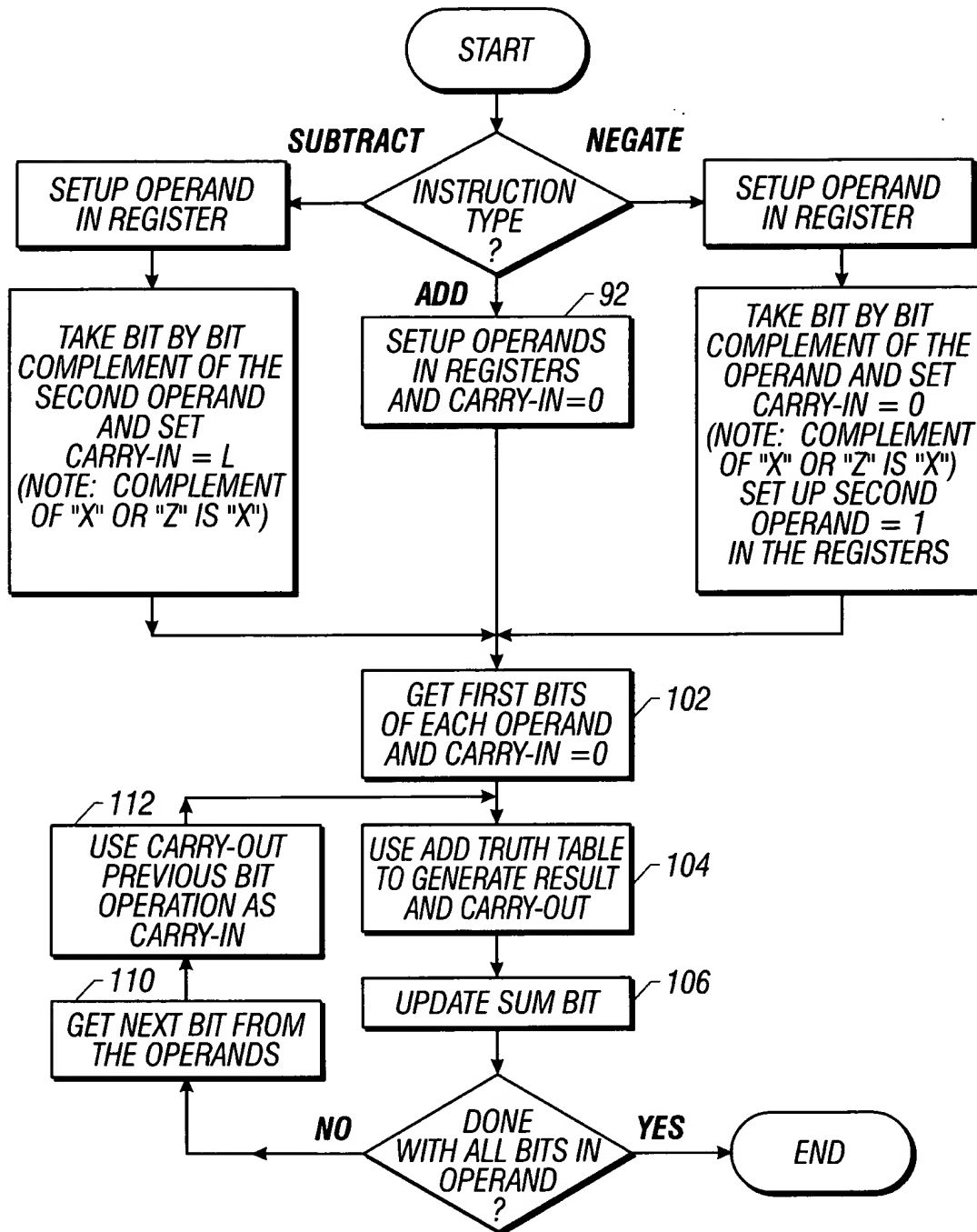


FIG. 5A

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CIN = 0			CIN = 1			CIN = X		
OPERAND 2			OPERAND 2			OPERAND 2		
RESULT			RESULT			RESULT		
0 01XX			0 10XX			0 XXXX		
1 10XX			1 01XX			1 XXXX		
X XXXX			X XXXX			X XXXX		
Z XXXX			Z XXXX			Z XXXX		
OPERAND 1			OPERAND 1			OPERAND 1		
0 0000			0 01XX			0 XXXX		
1 01XX			1 1111			1 XXXX		
X XXXX			X 11XX			X XXXX		
Z 0XXX			Z X1XX			Z XXXX		
CARRY-OUT			CARRY-OUT			CARRY-OUT		

FIG. 5B

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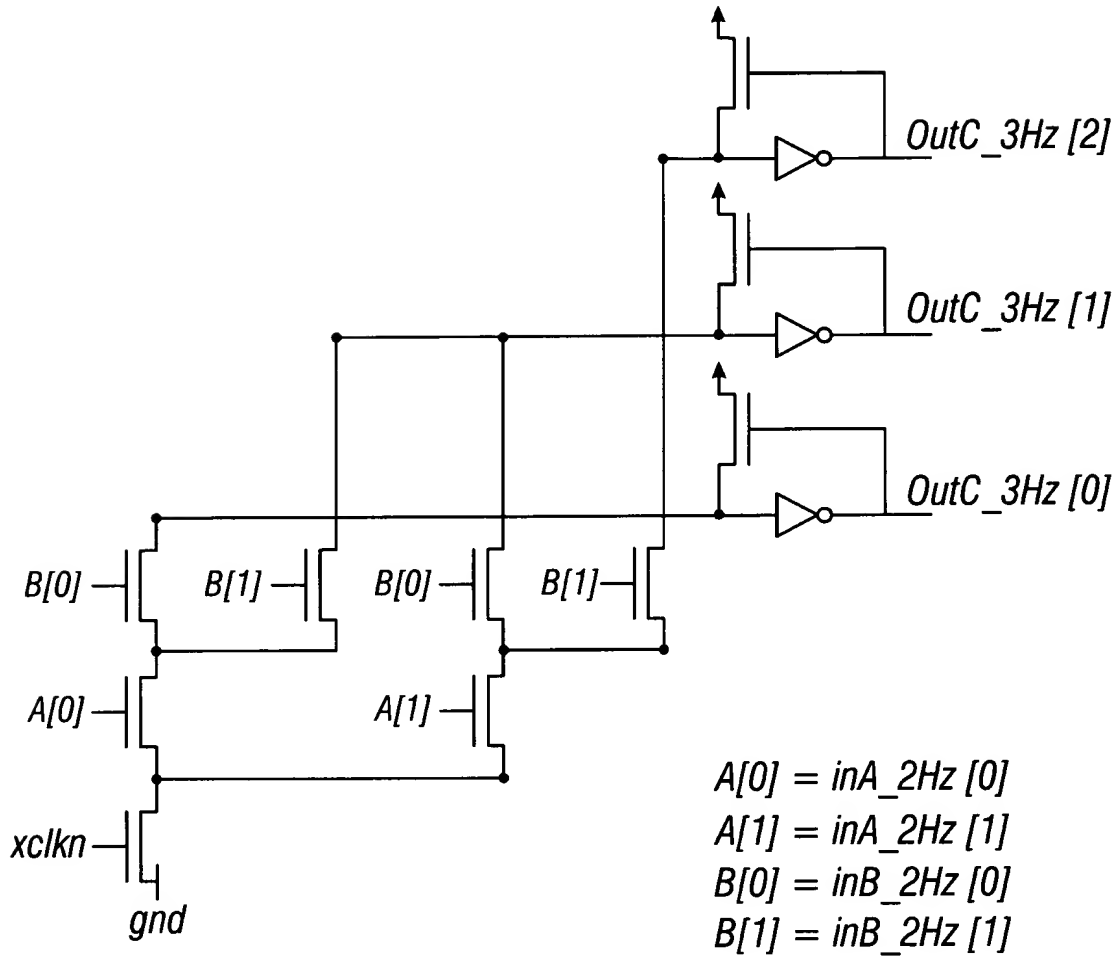


FIG. 6

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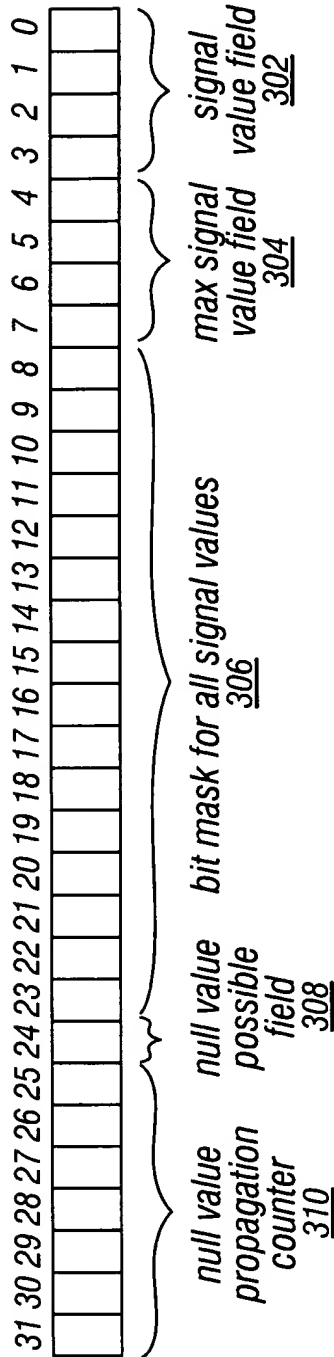


FIG. 7

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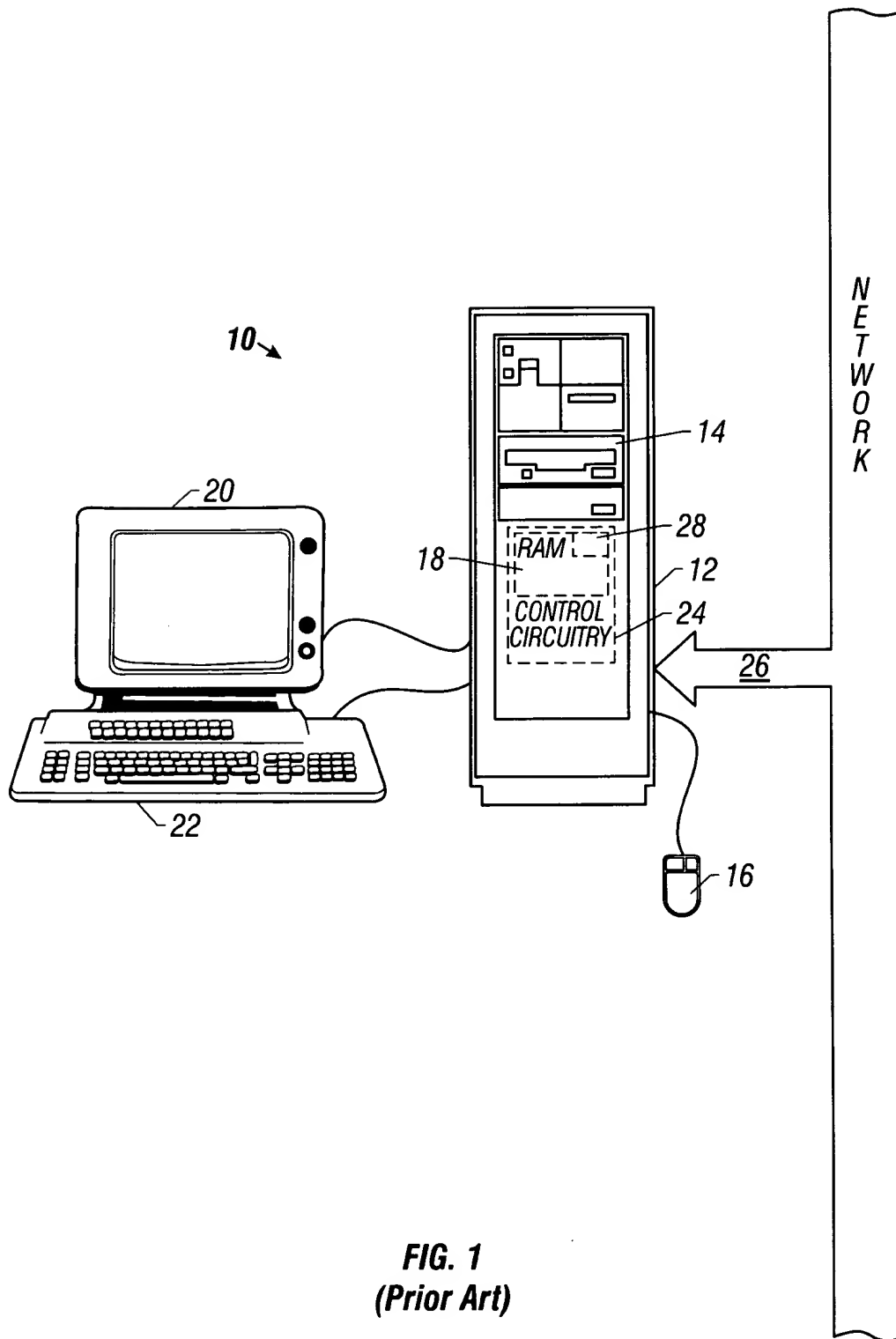




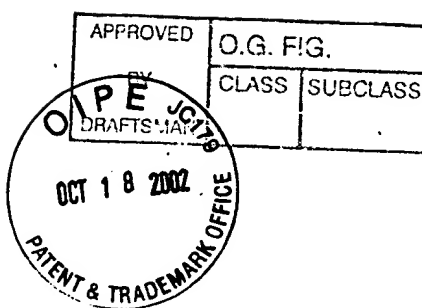
APPROVED	G. FIG.
OCT 18 2002	CLASS SUBCLASS
DRAFTSMAN	

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**FIG. 1**  
**(Prior Art)**



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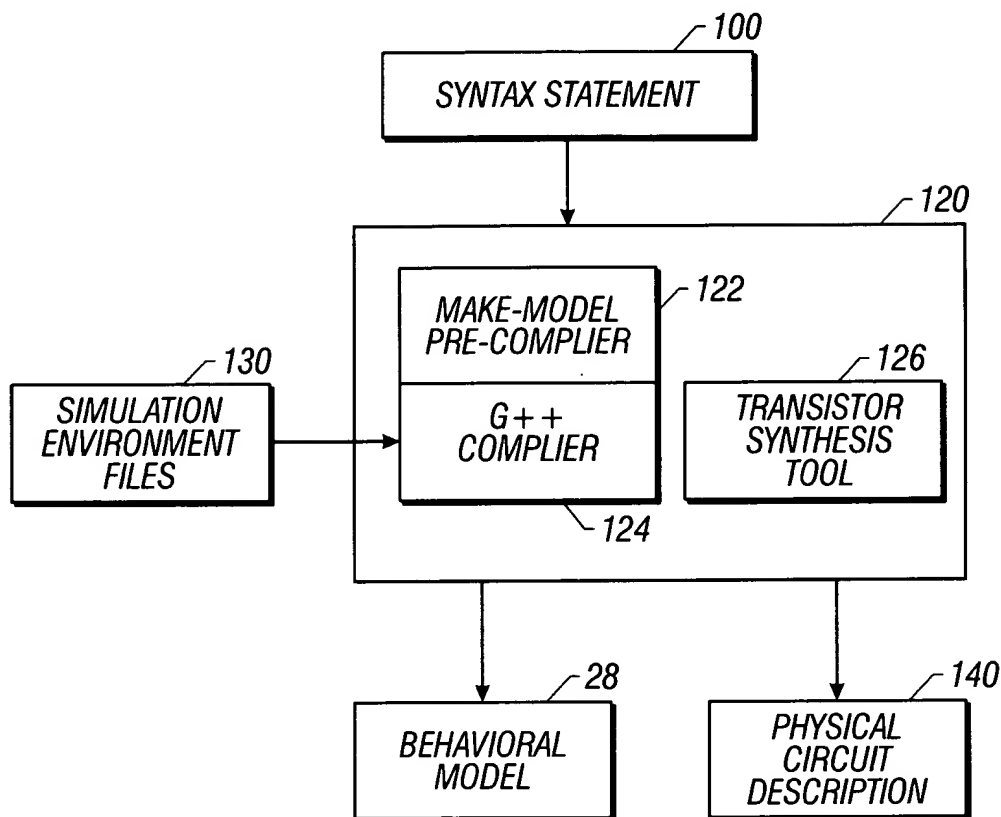


FIG. 2

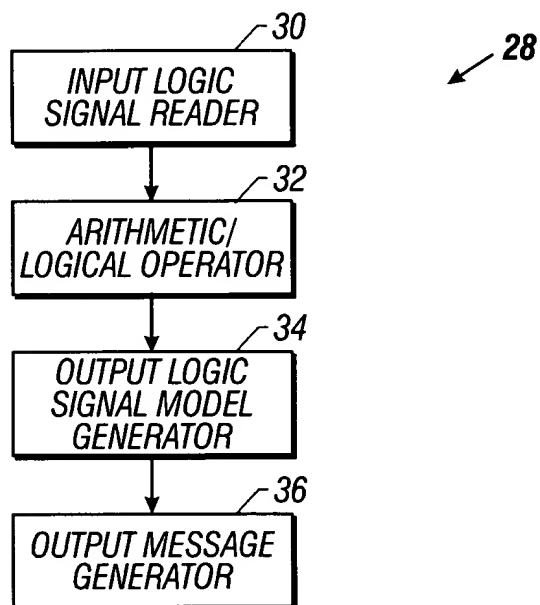


FIG. 3

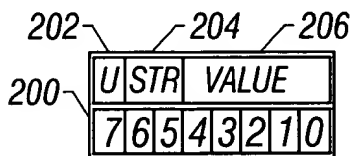


O.G. FIG.	
CLASS	SUBCLASS

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FIG. 4

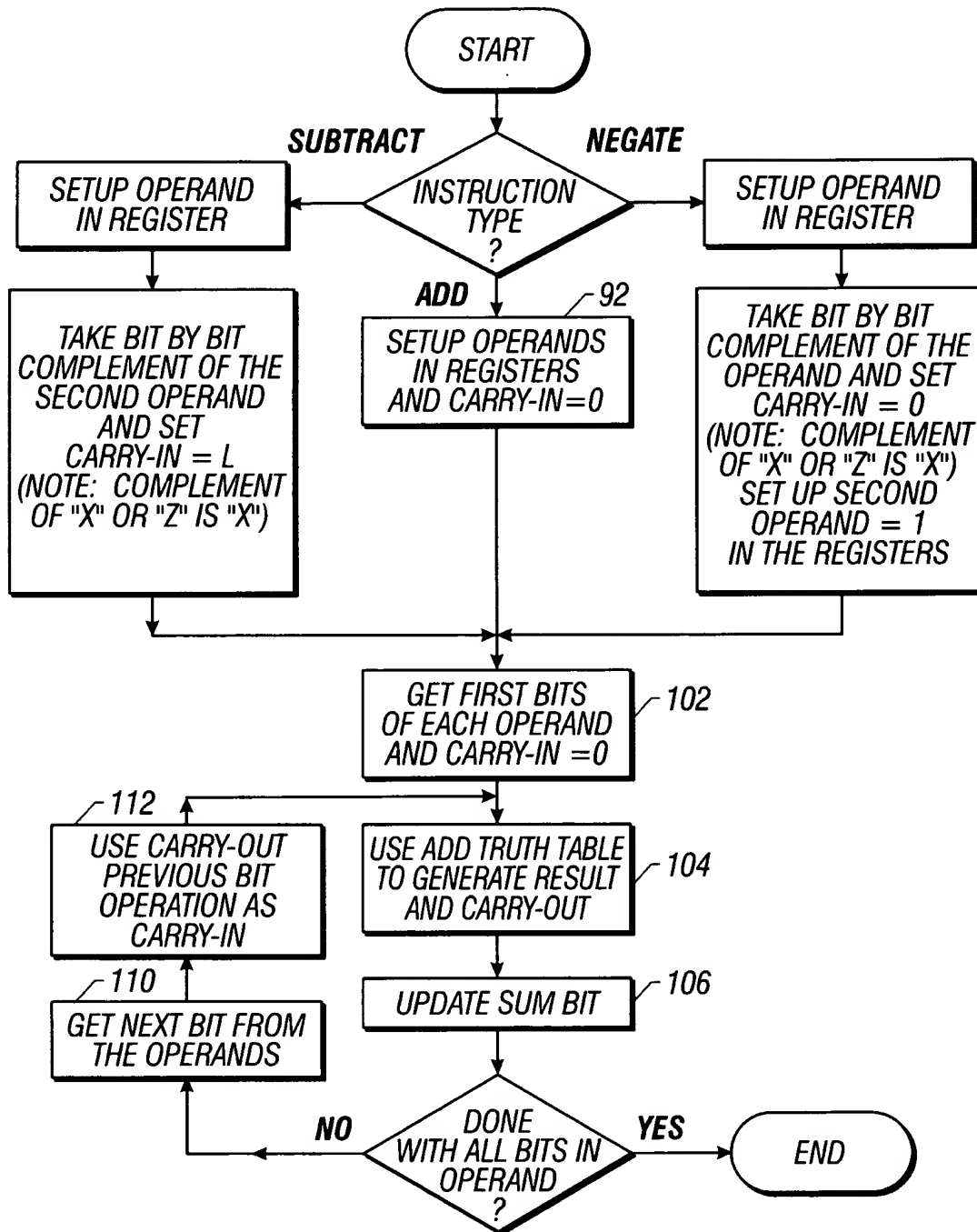
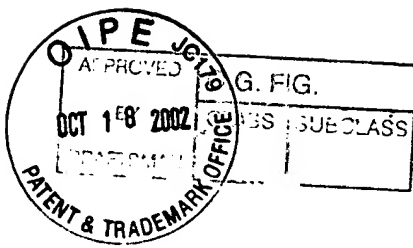
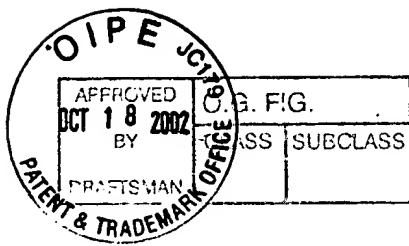


FIG. 5A





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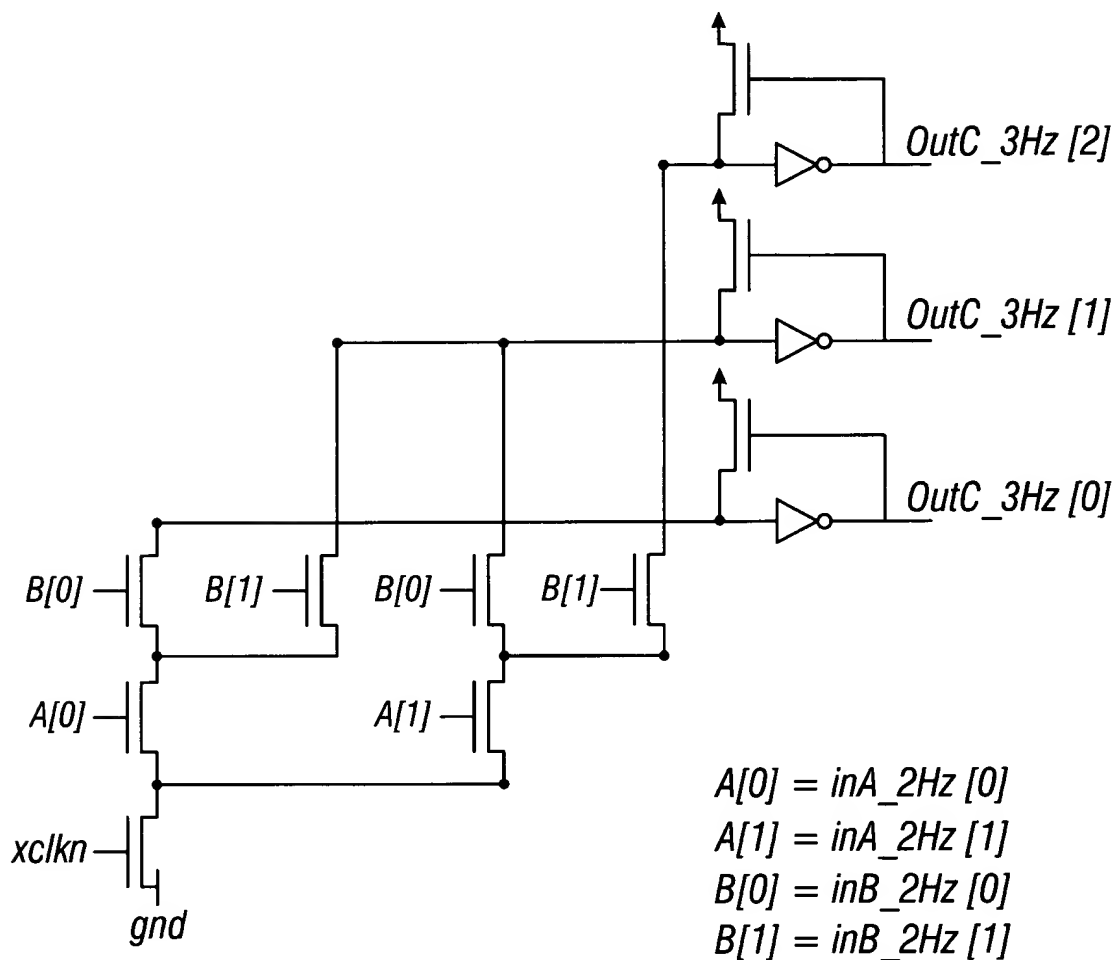
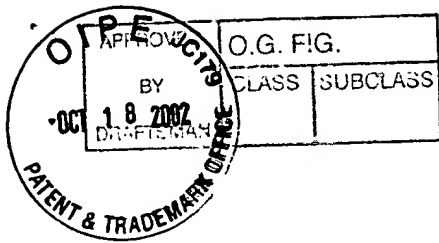


FIG. 6



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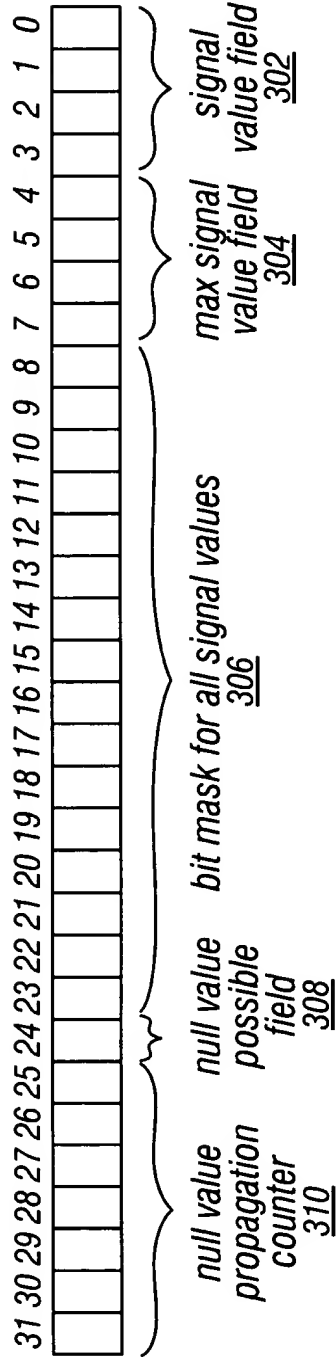


FIG. 7